

S.N. 10/733,117

1. (Currently Amended) An external rotor motor (12), comprising

- an internal stator (52);
- a stationary support part (18) supporting the stator; and
- an external rotor (49), cooperating with the internal stator (52), and journaled mounted on bearings for rotation with respect to the stator, said rotor having a casing part (14) on whose inner side (28) is arranged a permanent-magnet arrangement (50) for interaction that coacts with the internal stator (52);
- a control magnet (60), secured to the casing part (14),
- at least one galvanomagnetic rotor position sensor (62)
- associated therewith, in order to sense the rotational position of the casing part (14) relative to the support part (18); and
- a nonmagnetic spacer (58) arranged between the
- control magnet (60) and the permanent-magnet arrangement (50)
- of the external rotor (49).

2. (Original) The motor of claim 1, wherein the motor is electronically commutated.

3. (Original) The motor according to claim 1, wherein the support part (18) is configured as a substantially cylindrical part, and further comprising

at least one closure member (76, 78) having an outer periphery which abuts, with at least one sealing element (90), against a peripheral inner surface of the casing part (14).

4. (Original) The motor according to claim 3, wherein the closure member (76, 78) has, on its inner periphery, a protrusion (82) that engages into a corresponding recess (84) of the support part (18).

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10. (Original) The motor according to claim 8, wherein a prong ring (32), whose prongs engage into the inner side (28) of the casing part (14), is provided as an abutment for the compression spring (30).

11. (Original) The motor according to claim 8, wherein the inner races (22, 38) of the two rolling bearings (24, 40) are mounted on the support part (18).

12. (Original) The motor according to claim 8, wherein the rolling bearings are of different sizes.

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) The motor according to claim 14 1, wherein the at least one rotor position sensor (62), associated with the control magnet (60), is arranged on a circuit board (66) that is secured nonrotatably to the support part (18).

16. (Currently Amended) The motor according to claim 15, wherein the motor is electronically commutated, and electronic controls which direct the commutation of a motor implemented as a collectorless motor are arranged substantially entirely on the circuit board (66).

17. (Original) The motor according to claim 15, wherein the circuit board (66) extends substantially perpendicular to a rotation axis (67) of the casing part (14).

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18. (Original) The motor according to claim 1, wherein in order to constitute a magnetic return path for a permanent magnet (50, 60) of the rotor, the casing part (14) is made, at least locally, of a ferromagnetic material.

19. (Original) The motor according to claim 1, wherein, upon assembly, the support part (18) is insertable, with an insertion end (94) from a first end of the casing part (14) into said casing part;

wherein furthermore a first rolling bearing (24) is mounted with its inner ring (22) on the end region (96) of the support part (18) facing away from that insertion end (94), and the outside diameter of the outer ring (26) of that first rolling bearing (24) is dimensioned such that it is displaceable, substantially without radial clearance, in the inner side (28) of the casing part (14).

20. (Original) The motor according to claim 19, wherein a second rolling bearing (40) is mounted (48) with its outer ring (44) in the region of the second end of the casing part (14) located opposite the first end.

21. (Original) The motor according to claim 20, wherein the outer ring (42) of the second rolling bearing (44) is retained between a stop (46), provided on the inner side of the casing part (14), and a retaining member (48) provided there.

22. (Original) The motor according to claim 19, wherein a sensor arrangement (62, 66) for sensing the rotational position of the external rotor (49) relative to the internal stator (52), is arranged between the first rolling bearing (24) and the internal stator (52) mounted on the support part (18).

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23. (Currently Amended) The motor according to claim 22, wherein

the sensor arrangement (62, 66) has, associated with it, a said control magnet (60) mounted on the inner side of the casing part (14), the number of ~~whose poles is~~ control magnet poles being greater than a number of magnetic poles (50), coaxing with the internal stator (52) and secured to the housing part (14), of the external rotor (49).

24. (Original) The motor according to claim 23, wherein a nonmagnetic spacer ring (58) is arranged between the magnet poles (50) of the external rotor (49) and the control magnet (60).

25. (Original) The motor according to claim 1, wherein an axial recess (68), and a radial recess (70) intersecting said axial recess, are provided in the support part (18).

26. (Original) The motor according to claim 25, wherein

a respective electrical

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